

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1843.0120001/EKS/AJKAPPLICATION NO.  
10/809,790APPLICANT(S)  
Zauderer *et al.*FILING DATE  
March 26, 2004ART UNIT  
1646 1644

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
MO	AA1	5,635,363	06/03/1997	Altman <i>et al.</i>			02/28/1995
MO	AB1	6,015,884	01/18/2000	Schneck <i>et al.</i>			03/28/1997
MO	AC1	6,248,564	06/19/2001	Walter <i>et al.</i>			08/29/1997
MO	AD1	2002/0051783	05/02/2002	Savage			06/08/2001
MO	AE1	2002/0123108	09/05/2002	Edwards <i>et al.</i>			12/01/1995
MO	AF1	2002/0155447	10/24/2002	Zauderer <i>et al.</i>			04/04/2001
MO	AG1	6,548,067	04/15/2003	Seeman <i>et al.</i>			06/02/1995
MO	AH1	2003/0166277	09/04/2003	Zauderer <i>et al.</i>			04/12/2001
MO	AI1	6,682,741	01/27/2004	Ribaudo <i>et al.</i>			03/19/2001
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MO	AL1	WO 94/25610	11/10/1994	WIPO			Yes
							No
MO	AM1	WO 99/64597	12/16/1999	WIPO			Yes
							No
MO	AN1	GB 2 339 782	02/09/2000	Great Britain			Yes
							No
MO	AO1	WO 01/44296	06/21/2001	WIPO			Yes
							No
MO	AP1	WO 04/029206	04/08/2004	WIPO			Yes
							No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MO	AR	1	Altman, J.D., <i>et al.</i> , "Phenotypic Analysis of Antigen-Specific T Lymphocytes," <i>Science</i> 274:94-96, American Association for the Advancement of Science (1996)
MO	AS	1	Bedzyk, W.D., <i>et al.</i> , "Immunological and Structural Characterization of a High Affinity Anti-fluorescein Single-Chain Antibody," <i>J. Biol. Chem.</i> 265:18615-18620, American Society for Biochemistry and Molecular Biology, Inc. (1990)
MO	AT	1	Boniface, J.J., <i>et al.</i> , "Initiation of Signal Transduction through the T Cell Receptor Requires the Peptide Multivalent Engagement of MHC Ligands," <i>Immunity</i> 9:459-466, Cell Press (1998)

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1646-1644**U.S. PATENT DOCUMENTS**

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

ND	AR	2	Burrows, G.G., <i>et al.</i> , "Two-Domain MHC Class II Molecules Form Stable Complexes with Myelin Basic Protein 69-89 Peptide That Detect and Inhibit Rat Encephalitogenic T Cells and Treat Experimental Autoimmune Encephalomyelitis," <i>J. Immunol.</i> 161: 5987-5996, American Association of Immunologists (1998)
ND	AS	2	Casares, S., <i>et al.</i> , "Antigen-specific Signaling by a Soluble, Dimeric Peptide/Major Histocompatibility Complex Class II/Fc Chimera Leading to T Helper Cell Type 2 Differentiation," <i>J. Exp. Med.</i> 190:543-553, Rockefeller University Press (1999)
ND	AT	2	Cochran, J.R., <i>et al.</i> , "The Relationship of MHC-Peptide Binding and T Cell Activation Probed Using Chemically Defined MHC Class II Oligomers," <i>Immunity</i> 12:241-250, Cell Press (2000)

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	AO						Yes
							No
	AP						Yes
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>3</u>	Dal Porto, J., <i>et al.</i> , "A Soluble divalent class I major histocompatibility complex molecule inhibits alloreactive T cells at nanomolar concentrations," <i>Proc. Natl. Acad. Sci. USA</i> 90:6671-6675, National Academy of Sciences (1993)
	AS	<u>3</u>	Glick, M., <i>et al.</i> , "Novel CD8 <sup>+</sup> T Cell Antagonists Based on $\beta_2$ -Microglobulin," <i>J. Biol. Chem.</i> 277:20840-20846, American Society for Biochemistry and Molecular Biology, Inc. (June 2002)
	AT	<u>3</u>	Greten, T.F., <i>et al.</i> , "Direct visualization of antigen-specific T cells: HTLV-1 Tax11-19-specific CD8 <sup>+</sup> T cells are activated in peripheral blood and accumulate in cerebrospinal fluid from HAM/TSP patients," <i>Proc. Natl. Acad. Sci. USA</i> 95:7568-7573, National Academy of Sciences (1998)

EXAMINER 	DATE CONSIDERED 5/19/05
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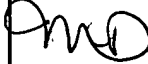
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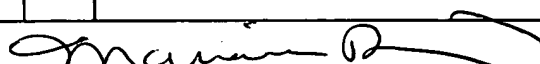
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	AL						Yes
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	AM						Yes
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	AN						Yes
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	AO						Yes
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	AP						Yes
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	4	Hamad, A.R.A., <i>et al.</i> , "Potent T Cell Activation with Dimeric Peptide-Major Histocompatibility Complex Class II Ligand: The Role of CD4 Coreceptor," <i>J. Exp. Med.</i> 188:1633-1640, Rockefeller University Press (1998)
	AS	4	Hebert, A.M., <i>et al.</i> , "Kinetics and Thermodynamics of $\beta$ 2-Microglobulin Binding to the $\alpha$ 3 Domain of Major Histocompatibility Complex Class I Heavy Chain," <i>Biochem.</i> 40:5233-5242, American Chemical Society (2001)
	AT	4	Hochman, J.H., <i>et al.</i> , "Specific Associations of Fluorescent $\beta$ 2-Microglobulin with Cell Surfaces. The Affinity of Different H-2 and HLA Antigens for $\beta$ 2-Microglobulin," <i>J. Immunol.</i> 140:2322-2329, American Association of Immunologists (1988)

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T646-1644**U.S. PATENT DOCUMENTS**

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	AL						Yes
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	AM						Yes
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	AN						Yes
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	AO						Yes
							No
	AP						Yes
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

MD	AR	5	Morrison, S.L., <i>et al.</i> , "Production and Characterization of Genetically Engineered Antibody Molecules," <i>Clin. Chem.</i> 34:1668-1675, American Association For Clinical Chemistry (1988)
MD	AS	5	Mottez, E., <i>et al.</i> , "Cells Expressing a Major Histocompatibility Complex Class I Molecule with a Single Covalently Bound Peptide Are Highly Immunogenic," <i>J. Exp. Med.</i> 181:493-502, Rockefeller University Press (1995)
MD	AT	5	Parham, P., <i>et al.</i> , "Carbohydrate Moiety of HLA Antigens. Antigenic Properties and Amino Acid Sequences Around the Site of Glycosylation," <i>J. Biol. Chem.</i> 252:7555-7567, American Society for Biochemistry and Molecular Biology, Inc. (1977)

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MO	AR	6	Parker, K.C., and Strominger, J.L., "Subunit Interactions of Class I Histocompatibility Antigens," <i>Biochem.</i> 24:5543-5550, American Chemical Society (1985)
MO	AS	6	Penichet, M.L., <i>et al.</i> , "An Antibody-Avidin Fusion Protein Specific for the Transferrin Receptor Serves as a Delivery Vehicle for Effective Brain Targeting: Initial Applications in Anti-HIV Antisense Drug Delivery to the Brain," <i>J. Immunol.</i> 163:4421-4426, American Association of Immunologists (1993)
MO	AT	6	Salter, R.D., <i>et al.</i> , "A binding site for the T-cell co-receptor CD8 on the $\alpha_3$ domain of HLA-A2," <i>Nature</i> 345:41-46, Nature Publishing Group (1990)

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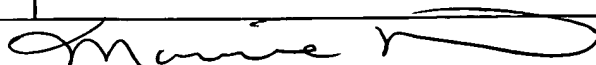
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MO	AR	1	Schmitt, L., <i>et al.</i> , "Catalysis of peptide dissociation from class II MHC-peptide complexes," <i>Proc. Natl. Acad. Sci. USA.</i> 96:6581-6586, National Academy of Sciences (1999)
MO	AS	1	Shin, S-U., and Morrison, S.L., "Production and Properties of Chimeric Antibody Molecules," <i>Methods Enzymol.</i> 178:459-476, Academic Press (1989)
MO	AT	1	Shin, S-U., <i>et al.</i> , "Functional and Pharmacokinetic Properties of Antibody-Avidin Fusion Proteins," <i>J. Immunol.</i> 158:4797-4804, American Association of Immunologists (1997)

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MO	AR	8	Sidney, J. <i>et al.</i> , "Practical, biochemical and evolutionary implications of the discovery of HLA class I supermotifs," <i>Immunol. Today</i> 17:261-266, Elsevier Science (1996)
ND	AS	8	Sidney, J., <i>et al.</i> , "Majority of Peptides Binding HLA-A*0201 With High Affinity Crossreact With Other A2-Supertype Molecules," <i>Hum. Immunol.</i> 62:1200-1216, Elsevier/North-Holland (2001)
RD	AT	8	Springer, T.A., and Strominger, J.L., "Detergent-soluble HLA antigens contain a hydrophilic region at the COOH-terminus and a penultimate hydrophobic region," <i>Proc. Natl. Acad. Sci. USA</i> 73:2481-2485, National Academy of Sciences (1976)

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	AO						Yes No
	AP						Yes No

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MD	AR	2	Turner, M.J., <i>et al.</i> , "Purification of Papain-solubilized Histocompatibility Antigens from a Cultured Human Lymphoblastoid Line, RPMI 4265," <i>J. Biol. Chem.</i> 250:4512-4519, American Society for Biochemistry and Molecular Biology, Inc. (1975)
MD	AS	2	Whitman, M.C., <i>et al.</i> , "The isolated major histocompatibility complex class I $\alpha 3$ domain binds $\beta 2m$ and CD8 $\alpha\alpha$ dimers," <i>Mol. Immunol.</i> 37:141-149, Pergamon Press (2000)
MD	AT	2	Zarutskie, J.A., <i>et al.</i> , "A Conformational Change in the Human Major Histocompatibility Complex Protein HLA-DR1 Induced by Peptide Binding," <i>Biochem.</i> 38:5878-5887, American Chemical Society (1999)

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	AO						Yes No
	AP						Yes No

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MD	AR	10	U.S. Patent Application No. 10/887,230, Zauderer, M., filed July 9, 2004 (NOT PUBLISHED)
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